

ABSTRACT

An ophthalmic lens suited for extended-wear periods of at least one day on the eye
5 without a clinically significant amount of corneal swelling and without substantial wearer
discomfort. The lens has a balance of oxygen permeability and ion or water permeability, with
the ion or water permeability being sufficient to provide good on-eye movement, such that a
good tear exchange occurs between the lens and the eye. A preferred lens is a copolymerization
product of a oxyperm macromer and an ionoperm monomer. The invention encompasses
10 extended wear contact lenses, which include a core having oxygen transmission and ion
transmission pathways extending from the inner surface to the outer surface.